

MD-S102 SERIES UNIVERSAL PRESSURE TRANSMITTER

TECHNICAL CHARACTERISTICS:

- ✓ Anti-frequency interference design, particularly suitable for use with inverters and variable frequency pumps
- ✓ Good long-term stability and high accuracy
- ✓ Diffused silicon sensor is used as pressure sensitive element with high sensitivity
- ✓ 304 stainless steel, Horseman connector



MD-S102 series universal pressure transmitter adopts compact structure and digital circuit design, which makes the external shape smaller, more convenient to install, and better electrical compatibility

This transmitter is designed for variable frequency water supply in water supply systems. It adopts a special anti-frequency conversion interference circuit to ensure the stability of output signals and long-term durability. It takes into account the temperature requirements of the water supply system at the same time. The transmitter is precisely temperature-compensated in a wide temperature range of $-10 \sim 70^{\circ}\text{C}$ to make it have small drift and good long-term stability.

This pressure transmitter can be matched with various inverters, air compressors, automated production lines, and self-conveyed equipment.

APPLICATIONS:

- ◇ Variable frequency water supply
- ◇ Machinery and equipment
- ◇ Water pipe network
- ◇ Automated production line

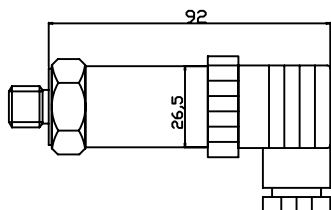
TECHNICAL PARAMETERS:

Range	Gauge: $-100\text{kPa} \dots -60 \sim 0 \sim 10\text{kPa} \dots 60\text{MPa}$ Absolute pressure: $0 \sim 10\text{kPa} \dots 100\text{kPa} \dots 2.5\text{MPa}$
Overload pressure	$\leq 10\text{MPa}$ 200% ; $> 10\text{MPa}$ 150%
Response time	$\leq 5\text{ms}$
Accuracy	0.5%FS
Long-term stability	Typical: $\pm 0.25\%\text{FS}/\text{year}$
Zero temperature drift	Typical: $\pm 0.02\%\text{FS}/^{\circ}\text{C}$, Max: $\pm 0.05\%\text{FS}/^{\circ}\text{C}$
Sensitivity temperature drift	Typical: $\pm 0.02\%\text{FS}/^{\circ}\text{C}$, Max: $\pm 0.05\%\text{FS}/^{\circ}\text{C}$
Supply	12~28VDC (Standard 24VDC)
Output	4~20mA / RS485 / 0~5V / 0~10V/0.5~4.5V
Operation temperature	$-40 \sim 80^{\circ}\text{C}$
Compensation temperature	$-10 \sim 70^{\circ}\text{C}$
Storage temperature	$-40 \sim 100^{\circ}\text{C}$
Electrical protection	Anti-reverse protection, anti-frequency interference design
IP rating	IP65(DIN) IP67(cable)
Measurement medium	Gas or liquid incompatible with 316L stainless steel
Pressure connection	M20*1.5, G1/2, G1/4, NPT1/4 (customized)
Connector material	304SS

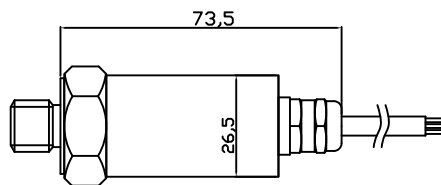


DIMENSION:

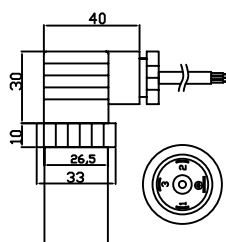
UNIT:mm



■ DIN

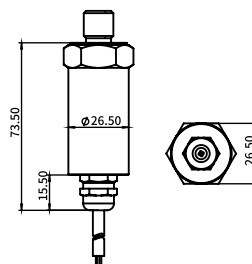


■ Straight out

OUTLET DEFINITION:


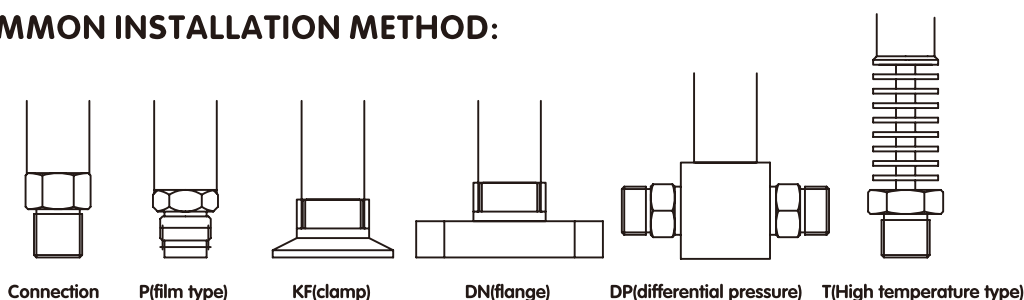
Current output Two wires	1	Power supply+
	2	Output+
	3	Nothing
Voltage output Three wires	1	Power supply+
	2	Power supply-
	3	Output+
RS485	1	Power supply+
	2	Power supply-
	3	Output+
	⊕	Output-

■ DIN



■ Straight out

Current output 4-20mA	Power supply+	Red
	Output+	Black
Voltage output 0-5V 0-10V 0.5-4.5V	Power supply+	Red
	Power supply-	Black
	Output+	Green
RS 485	Power supply+	Red
	Power supply-	Black
	Output+	Green
	Output-	White

COMMON INSTALLATION METHOD:

SELECTION GUIDE:

MD - S102 - P - 10b - 1 - A - P2 - M20 - A - T1						
Model: S102 (Universal) S102A (Absolute pressure)	Structural features: X(thread) P(film type) DP(differential pressure) KF(clamp) DN(flange) T(High temperature type)	Range: X b(0-X bar) X M(0-X MPa) X k (0-X kPa) X P(0-X PSI)	Accuracy: 1 (0.5% FS)			Measurement temperature: T1 (-40~+80°C)
						Electric connection: A (DIN) B (Straight out)
						Screw thread: M20 (M20*1.5) G14 (G1/4) G12 (G1/2) N12(NPT1/2) N14 (NPT1/4) M9(Customized) DN 25 DN 50 DN 80 KF 50
						Power supply: P2(12-28V)
						Output: A (4-20mA) R (RS485) V1 (0-10V) V2 (0-5V) V3 (0.5~4.5V)

